

INTERNATIONAL SEARCH REPORT

Int onal Application No
PCT/US2004/032599

A. CLASSIFICATION OF SUBJECT MATTER
C12N15/82 C12N9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
P, X	<p>TIEMAN, DENISEM.: "Identification of genes involved in tomato volatile synthesis"</p> <p>AMERICAN SOCIETY OF PLANT BIOLOGISTS, Online! no. 258, XP002339006</p> <p>Retrieved from the Internet: URL: http://abstracts.aspb.org/pb2004/pub1/c/M03/9103.html retrieved on 2005-07-13!</p> <p>the whole document</p> <p style="text-align: center;">----- -/-</p>	<p>1-7, 18-72, 76-79, 82-93</p>

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

29 August 2005

Date of mailing of the international search report

12.12.2005

Name and mailing address of the ISA

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>TADMOR YAAKOV ET AL: "Identification of malodorous, a wild species allele affecting tomato aroma that was selected against during domestication." JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. 27 MAR 2002, vol . 50, no. 7, 27 March 2002 (2002-03-27), pages 2005-2009, XP002339946 ISSN: 0021-8561 pages 2005-2006 "Introduction" pages 2007-2008: "Fine Mapping and mode of Inheritance of malodorous" page 2008: "Conclusions"</p>	1-7, 18-72, 76-79, 82-93
Y	<p>GIOVANNONI O ET AL: "Genetic mapping of ripening and ethyl ene-rel ated loci in tomato" THEORETICAL AND APPLIED GENETICS, vol . 98, no. 6-7, May 1999 (1999-05), pages 1005-1013, XP000980107 ISSN: 0040-5752 page 1012, paragraph SUMMARY</p>	1-7, 18-72, 76-79, 82-93
Y	<p>SALIBA-COLOMBANI V ET AL: "Genetic analysis of organoleptic quality in fresh market tomato. 1. Mapping QTLs for physical and chemical traits" THEORETICAL AND APPLIED GENETICS, vol . 102, no. 2-3, February 2001 (2001-02), pages 259-272, XP002339947 ISSN: 0040-5752 figure 1; table 1</p>	1-7, 18-72, 76-79, 82-93
Y	<p>US 6 011 199 A (SPEIRS ET AL) 4 January 2000 (2000-01-04) claim 1</p>	82-93
A	<p>STARK D ET AL: "Inhibition aspects of the byconversion of L-phenyl alanine to 2-phenylethanol by Saccharomyces cerevisiae." ENZYME AND MICROBIAL TECHNOLOGY, vol . 32, no. 2, 3 February 2003 (2003-02-03) , pages 212-223, XP002339948 ISSN: 0141-0229 figure 1</p>	1-7, 18-72, 76-79, 82-93

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International application No.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of
 - a. type of material
 - ☒ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☒ in written format
 - ☒ in computer readable form
 - c. time of filing/furnishing
 - ☒ contained in the international application as filed
 - ☐ filed together with the international application in computer readable form
 - ☒ furnished subsequently to this Authority for the purpose of search
2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished
3. Additional comments.

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ **P j** Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☒ **D** Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ **I** As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☒ **J** As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ **I Y I** No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-7, 18-67 (partially), 68-72, 76-77 (partially), 78-79, 82-93

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7, 18-67(partially), 68-72, 76-77(partially), 78-79, 82-93

Relates to an isolated polynucleotide encoding a plant 2-phenylethanol dehydrogenase.

2. claims: 8-17, 18-67(partially), 73-75, 76-77(partially), 80-93

Relates to an isolated polynucleotide encoding a plant phenylalanine decarboxylase.

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Information on patent family members

In lional Application No

PCT/US2004/032599

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6011199	A	04-01-2000	NONE